

LISTING OF THE CLAIMS

A complete listing of the claims is provided below. This listing of claims will replace all prior versions and listings of claims in the application.

CLAIMS:

1. (Original) A rotary positive displacement machine comprising:
 - a casing having a circular cylindrical internal surface delimiting an operating chamber;
 - an orbiting piston in the operating chamber, the orbiting piston being mounted so as to orbit about a chamber axis which is the axis of the said internal surface, the orbiting piston having a circular cylindrical external surface, the chamber axis passing through the orbiting piston, a generatrix of the external surface being adjacent to the said internal surface, and a diametrically opposite generatrix being spaced from the said internal surface;
 - a vane member mounted on the casing, the vane member having a tip face which faces the external surface of the orbiting piston and which has a length substantially equal to that of the orbiting piston; and
 - a linkage which connects the vane member to the orbiting piston so as to keep the tip face of the vane member adjacent the external surface of the orbiting piston;
 - wherein at least one of the said external and internal surfaces is provided with individual compliant strips which are distributed around the said one surface, run parallel to one another, and project above the said one surface.
2. (Original) A machine as claimed in claim 1, in which each compliant strip narrows towards the other of the said external and internal surfaces.
3. (Currently Amended) A machine as claimed in claim 1, ~~or 2~~, in which each complaint strip has a land at a level above the said one surface.
4. (Currently Amended) A machine as claimed in ~~any preceding~~ claim 1, in which each compliant strip is mounted in and protrudes from a groove in the said one surface.
5. (Original) A machine as claimed in claim 4, in which the groove and the compliant

strip widen beneath the said one surface.

6. (Currently Amended) A machine as claimed in claim 4, ~~or 5~~, in which the edges of the groove are chamfered.

7. (Currently Amended) A machine as claimed in ~~any of claims 4, to 6~~, in which the cross-sectional area of the groove is substantially equal to or greater than the cross-sectional area of the compliant strip.

8. (Currently Amended) A machine as claimed in ~~any preceding~~ claim 1, in which each compliant strip is made of an elastomer.

9. (Currently Amended) A machine as claimed in ~~any preceding~~ claim 1, in which only one of the said external and internal surfaces is provided with the said compliant strips.

10. (Currently Amended) A machine as claimed in ~~any preceding~~ claim 1, in which the said one surface is the external surface of the orbiting piston.

11. (Currently Amended) A machine as claimed in ~~any of claims 1, to 8~~, in which both of the said external and internal surfaces are provided with the said compliant strips.

12. (Currently Amended) A machine as claimed in ~~any preceding~~ claim 1, in which the distribution of the compliant strips is such that there is at least one of the compliant strips in contact with the other surface over the majority of the orbit of the orbiting piston.

13. (Currently Amended) A machine as claimed in ~~any preceding~~ claim 1, in which the orbiting piston comprises a non-rotating outer part and a rotating inner part.

14. (Original) A machine as claimed in claim 13, in which the outer part comprises an extruded body.

15. (Currently Amended) A machine as claimed in ~~any preceding~~ claim 1, including a

disc at one end of the orbiting piston, the disc rotating about the chamber axis in synchronism with the orbiting piston and delimiting one end of the operating chamber.

16. (Currently Amended) An assembly comprising a first rotary positive displacement machine according to ~~any preceding~~ claim 1 and a second rotary positive displacement machine.

17. (Original) An assembly as claimed in claim 16, in which the two machines are fixed end-to-end and have a common axis.

18. (Original) An assembly as claimed in claim 16, in which the two machines are arranged side-by-side with parallel axes.